

Title (en)
SHAPE MEASURING APPARATUS AND SHAPE MEASURING METHOD

Title (de)
FORMMESSVORRICHTUNG UND FORMMESSVERFAHREN

Title (fr)
APPAREIL ET PROCÉDÉ DE MESURE DE FORME

Publication
EP 3343169 A1 20180704 (EN)

Application
EP 17830624 A 20170119

Priority
• JP 2016141611 A 20160719
• JP 2017001720 W 20170119

Abstract (en)
[Object] To provide a shape measurement apparatus that is capable of detecting minute roughness irregularity at high speed across the entire width on the entire surface of a measurement object. [Solution] Provided is a shape measurement apparatus including: a light source configured to irradiate a surface of a moving strip-shaped body with linear light diagonally from an upstream side in a movement direction of the strip-shaped body; a screen configured such that reflected light of the linear light on the surface of the strip-shaped body is projected on the screen; an imaging unit configured to image the reflected light of the linear light projected on the screen; and an arithmetic processing unit configured to acquire surface roughness distribution of the strip-shaped body on the basis of width distribution of a light strip of the reflected light of the linear light projected on the screen. The angle of incidence of the light source with respect to the strip-shaped body is set in accordance with target surface roughness of the surface of the strip-shaped body.

IPC 8 full level
G01B 11/30 (2006.01); **G01N 21/892** (2006.01)

CPC (source: EP KR US)
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